Amendments to the Claims:

The following claims will replace all prior versions of the claims in this application (in the unlikely event that no claims follow herein, the previously pending claims will remain):

- 1. (Currently amended) A process for preparing an aqueous dispersion of water insoluble polymer particles comprising:
 - a) preparing by polymerisation an aqueous dispersion of water insoluble particles of a heteropolymer including monomeric units of a reactive amphiphile having a cloud point and monomeric units of a hydrophilic monomer, said polymerisation being conducted in the presence of a stabilising agent and the reactive amphiphile and at a temperature of more than 5°C above the cloud point of said amphiphile,
 - b) cooling said aqueous dispersion to a temperature below the cloud point of the reactive amphiphile such that the viscosity of the aqueous dispersion increases.
- 2. (Original) A process according to claim 1 wherein the reactive amphiphile is incorporated into the backbone of said heteropolymer.
- 3. (Original) A process according to claim 2 wherein the reactive amphiphile includes one or more double or triple bonds.
- 4. (Original) A process according to claim 3 wherein the reactive amphiphile is selected from unsaturated fatty acid alkoxylates, unsaturated fatty alcohol alkoxylates and surfactants containing reactive double bonds derived from (meth)acryl or vinyl groups.
- 5. (Original) A process according to claim 2 wherein the amphiphile includes a group selected from carboxylate, sulfonate, phosphate and primary and secondary amine groups.

- 6. (Original) A process according to claim 1 wherein the heteropolymer includes in its backbone a monomer comprising a terminal or pendant functional group which reacts with a reactive group present on the reactive amphiphile such that the reactive amphiphile is incorporated into the heteropolymer.
- 7. (Original) A process according to claim 6 wherein the reactive amphiphile includes a reactive group selected from carboxylate, sulfonate, phosphate and primary and secondary amine groups.
- 8. (Currently amended) A process according to claim 1 wherein the reactive amphiphile has a cloud point of greater than 10EC 10°C above the use temperature of a water based composition or paint into which it is incorporated.
- 9. (Currently amended) A process according to claim 8 wherein the reactive amphiphile has a cloud point of greater than 45EC 45°C.
- 10. (Currently amended) A process according to claim 8 wherein the reactive amphiphile has a cloud point of between 50EC and 100EC 50°C and 100°C.
- 11. (Original) A process according to claim 1 wherein the amount of reactive amphiphile used to prepare the water insoluble particles of heteropolymer is from 1 to 35% by weight of the heteropolymer.
- 12. (Original) A process according to claim 1 wherein the hydrophilic monomer comprises 5 to 99% by weight of the heteropolymer.
- 13. (Original) A process according to claim 1 wherein at least a portion of the monomeric units of hydrophilic monomer have ionizable groups.
- 14. (Original) A process according to claim 13 wherein the ionizable groups are acid groups.

- 15. (Original) A process according to claim 14 wherein the hydrophilic monomer having ionizable acid groups is selected from methacrylic acid, acrylic acid, itaconic acid, p-styrene carboxylic acids, p-styrene sulfonic acids, vinyl sulfonic acid, vinyl phosphonic acid, ethacrylic acid, alpha-chloroacrylic acid, crotonic acid, fumaric acid, citraconic acid, mesaconic acid and maleic acid.
- 16. (Original) A process according to claim 13 wherein the hydrophilic monomers having ionizable groups make up 0.1 to 40% by weight of the heteropolymer.
- 17. (Original) A process according to claim 1 wherein the heteropolymer contains monomeric units of a hydrophobic monomer having a water solubility of less than 5g/L.
- 18. (Original) A process according to claim 17 wherein the hydrophobic monomer is selected from styrene, alpha-methyl styrene, butyl acrylate, butyl methacrylate, amyl methacrylate, hexyl methacrylate, lauryl methacrylate, stearyl methacrylate, ethyl hexyl methacrylate, crotyl methacrylate, cinnamyl methacrylate, oleyl methacrylate, ricinoleyl methacrylate, vinyl butyrate, vinyl tert-butyrate, vinyl stearate and vinyl laurate.
- 19. (Original) A process according to claim 13 wherein the polymerisation is carried out using a sequential polymerisation process in which the reactive amphiphile and ionizable monomers are concentrated in a first feed which is polymerised prior to addition and polymerisation of a second feed in which the ionizable monomer and/or reactive amphiphile are absent or in lower concentrations relative to the first feed.
- (Original) A process according to claim 19 wherein seed particles are prepared prior to polymerisation of said first feed.

- 21. (Original) A process according to claim 1 wherein the stabilising agent is selected from anionic surfactants, polymeric stabilisers, cationic surfactants and non-ionic surfactants which cloud points above the temperature of polymerisation.
- 22. (Cancelled).
- 23. (Currently amended) A process according to claim 22 wherein the polymerisation temperature is below 120EC 120°C.
- 24. (Original) A process according to claim 13 wherein the viscosity of the aqueous dispersion is further increased after polymerisation by neutralisation of at least a portion of the ionizable groups.
- 25. (Original) An aqueous dispersion of water insoluble heteropolymer particles wherein said heteropolymer particles comprise an inner polymeric core and an outer polymeric sheath, wherein said core incorporates units of a reactive amphiphile having a cloud point, said units of reactive amphiphile being substantially hydrated, and wherein at least a portion of said sheath comprises polymerised hydrophilic monomers, said dispersion exhibiting temperature dependent viscosity.
- 26. (Original) An aqueous dispersion of water insoluble heteropolymer particles, wherein said heteropolymer particles incorporate units of hydrophilic ionizable monomers and reactive amphiphile throughout the particles.
- 27. (Original) An aqueous dispersion of water insoluble particles prepared in accordance with the process of claim 1.

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- 28. (Original) Paints, binders or thickeners for paints, adhesives, textile coatings, carpet backings or construction materials comprising an aqueous dispersion of polymeric particles according to any one of claims 25 to 27.
- 29. (Cancelled).